

Amendments to the Specification:

Please replace paragraph [0082] with the following amended paragraph:

Another example of a useful algorithm is the BLAST (Basic Local Alignment Search Tool) algorithm, described in Altschul et al., J. Mol. Biol. 215, 403-410, (1990) and Karlin et al., PNAS USA 90:5873-5787 (1993). A particularly useful BLAST program is the WU-BLAST-2 program which was obtained from Altschul et al., Methods in Enzymology, 266: 460-480 (1996); ~~http://blast.wustl.edu/~~ world wide web at blast.wustl.edu. WU-BLAST-2 uses several search parameters, most of which are set to the default values. The adjustable parameters are set with the following values: overlap span=1, overlap fraction=0.125, word threshold (T)=11. The HSP S and HSP S2 parameters are dynamic values and are established by the program itself depending upon the composition of the particular sequence and composition of the particular database against which the sequence of interest is being searched; however, the values may be adjusted to increase sensitivity. A percent amino acid sequence identity value is determined by the number of matching identical residues divided by the total number of residues of the "longer" sequence in the aligned region. The "longer" sequence is the one having the most actual residues in the aligned region (gaps introduced by WU-Blast-2 to maximize the alignment score are ignored).

Please replace paragraph [0149] with the following amended paragraph:

Any polypeptide sequence encoded by the CA polynucleotide sequences may be analyzed to determine certain preferred regions of the polypeptide. Regions of high antigenicity are determined from data by DNASTAR analysis by choosing values that represent regions of the polypeptide that are likely to be exposed on the surface of the polypeptide in an environment in which antigen recognition may occur in the process of initiation of an immune response. For example, the amino acid sequence of a polypeptide encoded by a CA polynucleotide sequence

Applicant : Morris, et al.
Serial No. : 10/663,431
Filed : September 15, 2003
Page : 3 of 15

Attorney's Docket No.: 20366-
071001 / PP023357.0001

may be analyzed using the default parameters of the DNASTAR computer algorithm
(DNASTAR, Inc., Madison, Wis.; ~~http://www.dnastar.com/~~ world wide web at dnastar.com).